CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2017-11-20-01** **Date: 21-11-17**

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Providing pot hole filling at Chowdeshwari Ward no.02 of Yelahanka Sub division.

Agency : Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.

Customer Reference : BBMP/EE/YNK.D/WO/124/2016-17

Source of Sample : Sample supplied by Agency

Date of Receipt : 20-11-17

Sample ID No : 2017-11-20-01/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 20-11-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	472	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.6	5.4
4	Average percentage	%	5.5	

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

CIVIL PRO BANGALORE Sig. Date

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Lab ID : **CP-RW-2017-11-20-01** **Date: 21-11-17**

Sample ID : **2017-11-20-01/01**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	11	11	2.3	97.7	90-100
9.5	66	77	16.3	83.7	70-88
4.75	87	164	34.7	65.3	53-71
2.36	102	266	56.4	43.6	42-58
1.18	24	290	61.4	38.6	34-48
0.6	32	322	68.2	31.8	26-38
0.3	30	352	74.6	25.4	18-28
0.15	28	380	80.5	19.5	12-20
0.075	55	435	92.2	7.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	14	14	3.0	97.0	90-100
9.5	82	96	20.3	79.7	70-88
4.75	116	212	44.7	55.3	53-71
2.36	61	273	57.6	42.4	42-58
1.18	29	302	63.7	36.3	34-48
0.6	45	347	73.2	26.8	26-38
0.3	25	372	78.5	21.5	18-28
0.15	21	393	82.9	17.1	12-20
0.075	42	435	91.8	8.2	4-10

Note:

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End of Report

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-11-09-02** **Date: 09-11-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Providing pot hole filling at Chowdeshwari Ward no.02 of Yelahanka Sub division.
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post
Customer Reference	:	BBMP/EE/YNK.D/WO/124/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-11-17
Sample ID No	:	2017-11-09-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	09-11-17
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	213	213	1.9	98.1	95-100
22.4	2859	3072	27.9	72.1	60-80
11.2	2639	5711	51.9	48.1	40-60
4.75	2464	8175	74.3	25.7	25-40
2.36	910	9085	82.6	17.4	15-30
0.6	547	9632	87.6	12.4	8-22
0.075	938	10570	96.1	3.9	0-5

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-11-09-02**	**Date: 11-11-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.	
Address	:	Yelahanka Sub division, BBMP, Bangalore.	
Project Name	:	Providing pot hole filling at Chowdeshwari Ward no.02 of Yelahanka Sub	
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.	
Customer Reference	:	BBMP/EE/YNK.D/WO/124/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	09-11-17	
Sample ID No	:	2017-11-09-02/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	09-11-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	299.5	299.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	67.9	68.4
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	231.2	230.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.6
5	Aggregate impact value	(B/A)*100	22.7	22.8
6	Aggregate impact value (Mean of two tests)	Pecentage	22.8	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-11-09-02** **Date: 11-11-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Providing pot hole filling at Chowdeshwari Ward no.02 of Yelahanka Sub division.
Agency	:	Sri. B. B Umesh (SMLP Asphalts) Bettahalsoor village and Post Bangalore.
Customer Reference	:	BBMP/EE/YNK.D/WO/124/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-11-17
Sample ID No	:	2017-11-09-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-11-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.6%	
Combined Flakiness and Elongation Index for WMM	22.1%	

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